

DATE: OCTOBER 11, 1990
TO: RUSS KORVOLA
ROLLIE MONTAGNE
FROM: MARY BRUGO *MB*
SUBJECT: PCB's T-4

About 9:30 this morning Heidi Pheifer, (x321) Ops assistant for Marine Security called.

1. Regarding small PCB spill at T-4 at about 8:00 last night
 - She wanted to verify who Phil Ralston was (T-4 security wanted to know). I explained he was with Hahn & Assoc. Inc. She understands T-4 called Russ last night.
 - Spill was cordoned-off (it is near punch bowl by scales).
2. Kevin Jones of Jones Oregon (289-9380) wants to know what the disposition plans are for 10, 55-gallon barrels of PCBs marked dangerous and now stored on tailgate side of Matson Warehouse at T-4. Apparently the Coast Guard was out last week looking at these.

I told her I didn't know but that I would pass the information on to Russ Korvola.

She asked we inform Marine Security (they need to be kept informed) and also Jones Oregon about the disposition.

After talking to her it seems that as a matter of protocol ESD should provide security at all our operations a list of our consultants, including pertinent information about the firm. I believe some ESD consultants already have facility ID badges.

Redacted

T4T900001619

PROJECT T-4 ROGERS LEASE AREA UG. TANK REMOVAL CONTRACT NO. 51261/464CONTRACTOR TOM NEW CONST SUPERINTENDENT DEAN

WEATHER _____

NUMBER AND CLASS OF CONTRACTOR'S PERSONNEL

_____MAJOR EQUIPMENT ON JOB (Size or capacity and hours operated)

CHRONOLOGICAL ACCOUNT OF DAY'S WORK

9-20-90 SUPT. SAYS WILL BEGIN WORK 10-8-9010-9-90 " " " " " " ± 10-18-9010-22-90 1-OPERATOR, 1-LABORER USING TRACKHOES TO EXCAVATE
TANK, 2-REPRESENTATIVES FROM HAHN & ASSOCIATES
OBSERVING SOIL & TANK CONDITIONS,10-23-90 1-LABORER USING 500 HOB TO BACKFILL10-24-90 CROW COMPACTED & ROCKED10-29-90 CONTRACTOR PAVED AREA,10-31-90 JOHN N. OF HAHN & ASSOCIATES CALL, STATED
ONESIDE OF TEST WAS "0" PARTS PER MILLION THE
OTHER WAS ONLY "7" PARTS PER MILLION. WILL SEND
RESULTS.

TESTING LABORATORY _____

HRS. _____

INSPECTOR _____

HRS. _____

DATE _____

**CHEMICAL PROCESSORS, INC.**

PORTLAND
5420 North Lagoon Drive
Portland, OR 97217
(503) 283-1150

INVOICE

INVOICE NO.	PAGE
PTD 3059	1
11/29/90	
INVOICE DATE	

PLEASE REMIT TO:
CHEMICAL PROCESSORS, INC.
P.O. BOX 34137
SEATTLE, WA 98124-1137

SOLD
TO
PORT OF PORTLAND
ATTN RUSS KORVOLA
PO BOX 3529
PORTLAND, OR 97208

PORT OF PORTLAND
PO BOX 3529
PORTLAND, OR 97208

ORDER NO.	JOB DATE	CUSTOMER NO.	LOCATION	SALES PERSON	PURCHASE ORDER NO.	JOB NUMBER	SHIP VIA	FREIGHT COLLECT/PREPAID
2084	11/14/90	POR001	AA	005		90486R	Unknown	
ITEM NO. ITEM DESCRIPTION	UNIT PRICE	QTY. ORDERED QTY. SHIPPED	UOM	EXTENDED PRICE QTY. BACKORDERED		NET PRICE		
Site Remediation SUPERVISOR S.T.	48.0000	3.500 3.500		168.00	.00	168.00		
TECHNICIAN S.T.	34.0000	25.500 25.500		867.00	.00	867.00		
TECHNICIAN O.T.	42.0000	1.500 1.500		63.00	.00	63.00		
9 OZ SAMPLE JARS	2.1300	2.000 2.000		4.26	.00	4.26		
4 OZ SAMPLE JARS	1.5100	4.000 4.000		6.04	.00	6.04		
HEXANE	.2600	54.000 54.000		14.04	.00	14.04		
T-156 PADS	.4000	26.000 26.000		10.40	.00	10.40		
DRUM LINERS	1.0000	7.000 7.000		7.00	.00	7.00		
VISQUINE	40.0000	1.000 1.000		40.00	.00	40.00		

COMMENTS:	<div>RECEIVED</div> <div>NOV 30 1990</div> <div>ENGINEERING SERVICES</div> <div>LLC/2 ELCC</div>	<div>SALE AMOUNT</div> <div>MISC. CHARGES</div> <div>SALES TAX</div> <div>FREIGHT</div> <div>TOTAL</div> <div>AMOUNT RECEIVED</div> <div>BALANCE DUE</div>
TERMS DUE DATE		

T4T900001621



CHEMICAL PROCESSORS, INC.

PORTLAND
5420 North Lagoon Drive
Portland, OR 97217
(503) 283-1150

INVOICE

INVOICE NO.	PAGE
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TO PORT OF PORTLAND
ATTN RUSS KORVOLA
PO BOX 3529
PORTLAND, OR 97208

PORT OF PORTLAND
PO BOX 3529
PORTLAND, OR 97208

ORDER NO.	JOB DATE	CUSTOMER NO.	LOCATION	SALES PERSON	PURCHASE ORDER NO.	JOB NUMBER	SHIP VIA	FREIGHT COLLECT/PREPAID
2084	11/14/90	POR001	AA	005		90486R	Unknown	
ITEM NO. ITEM DESCRIPTION		UNIT PRICE	QTY. ORDERED QTY. SHIPPED	UOM	EXTENDED PRICE QTY. BACKORDERED		NET PRICE	
17C 55GAL DRUMS		40.9000	15.000 15.000		613.50 .00		613.50	
LEVEL C PPE		70.0000	2.000 2.000		140.00 .00		140.00	
AIR COMPRESSOR		80.0000	.500 .500		40.00 .00		40.00	
JACK HAMMER		34.5000	1.000 1.000		34.50 .00		34.50	
HAND TOOLS		5.0000	2.000 2.000		10.00 .00		10.00	
EQUIP TRUCK		64.0000	1.500 1.500		96.00 .00		96.00	
EQUIP TRUCK/W BOOM		70.0000	1.000 1.000		70.00 .00		70.00	
RUBBER GLOVES		.2500	2.000 2.000		.50 .00		.50	
LABELS		1.0000	2.000 2.000		2.00 .00		2.00	
<div><div>T-4 Light</div><div>151294-400</div><div>10/11/90K (PL)</div></div>								

COMMENTS:
REMOVE ASPHALT, CLEAN LIGHT FIXTURE
PROGRESS BILL--THANK YOU
WE APPRECIATE YOUR BUSINESS

TERMS Upon Receipt
DUE DATE 12/29/90

SALE AMOUNT	2,186.24
MISC. CHARGES	.00
SALES TAX	.00
FREIGHT	.00
TOTAL	2,186.24
AMOUNT RECEIVED	.00
	.00
BALANCE DUE	2,186.24



CHEMICAL PROCESSORS, INC.

DAILY COST SHEET

№ 2056

☐ Seattle
3400 E. Marginal Way S.
Seattle, WA 98134
(206) 682-4898
Fax: (206) 443-8586

☐ Kent
20245 76th Ave. S.
Kent, WA 98032
(206) 872-8030
Fax: (206) 395-0377

☐ Bellingham
2032 Humboldt St.
Bellingham, WA 98225
(206) 734-7435
Fax: (206) 733-0522

☒ Portland
5420 N. Lagoon Drive
Portland, OR 97217
(503) 283-1150
Fax: (503) 289-6568

Page 1 of 1

Contact: Russ KORUOLA

Telephone: 231-5600

Customer Order: _____

Work Description: REMOVE AND DEUM UP ASPHALT

Customer: PORT OF PORTLAND

Job Location: TERMINAL 4

Project No.: 90486R Date 10/26/90

☒ Job in Progress ☐ Job Complete Manifest # _____

☐ Marine ☐ Industrial ☐ Hazardous Waste
☐ Asbestos ☐ UST Other PCB'S

Classification	Employee Name	S/T		O/T		Total Hours	Hourly Rate	Total
		From	To	From	To			
Tech/Lead man	DAVE FRANKLIN	0730	1200	---	---	4.5	31.00	153.00
Tech	SCROLD Butz	0730	1200	---	---	4.5	31.00	153.00
</								

Acknowledgement:

Chempro Representative:

Title: _____

Customer Representative:

Title: _____

WHITE / ORIGINAL

YELLOW / FILE COPY

Redacted

T4T900001624



Port of Portland

Box 3529 Portland, Oregon 97208
503/231-5000
TLX: 474-2039

TED
WINTER

December 3, 1990

Andree Pollock
Department of Environmental Quality
Northwest Region
811 S.W. 6th Avenue
Portland, OR 97204

UNDERGROUND STORAGE TANK DECOMMISSIONING REPORT, TERMINAL 4

Attached for your review is a report prepared by Hahn & Associates, Inc. (HAI) documenting the decommissioning and removal of an underground storage tank located at the Port of Portland's Terminal 4 facility.

Sampling and analysis of the soils in the excavation indicated no release of gasoline from the tank. Groundwater was not encountered during the decommissioning project. The excavation was backfilled with clean soil and gravel, compacted, and repaved.

If you have any questions, please contact me at 231-5000, extension 608.

Russ Korvola
Environmental Management Specialist
Environmental Services Division

Attachment

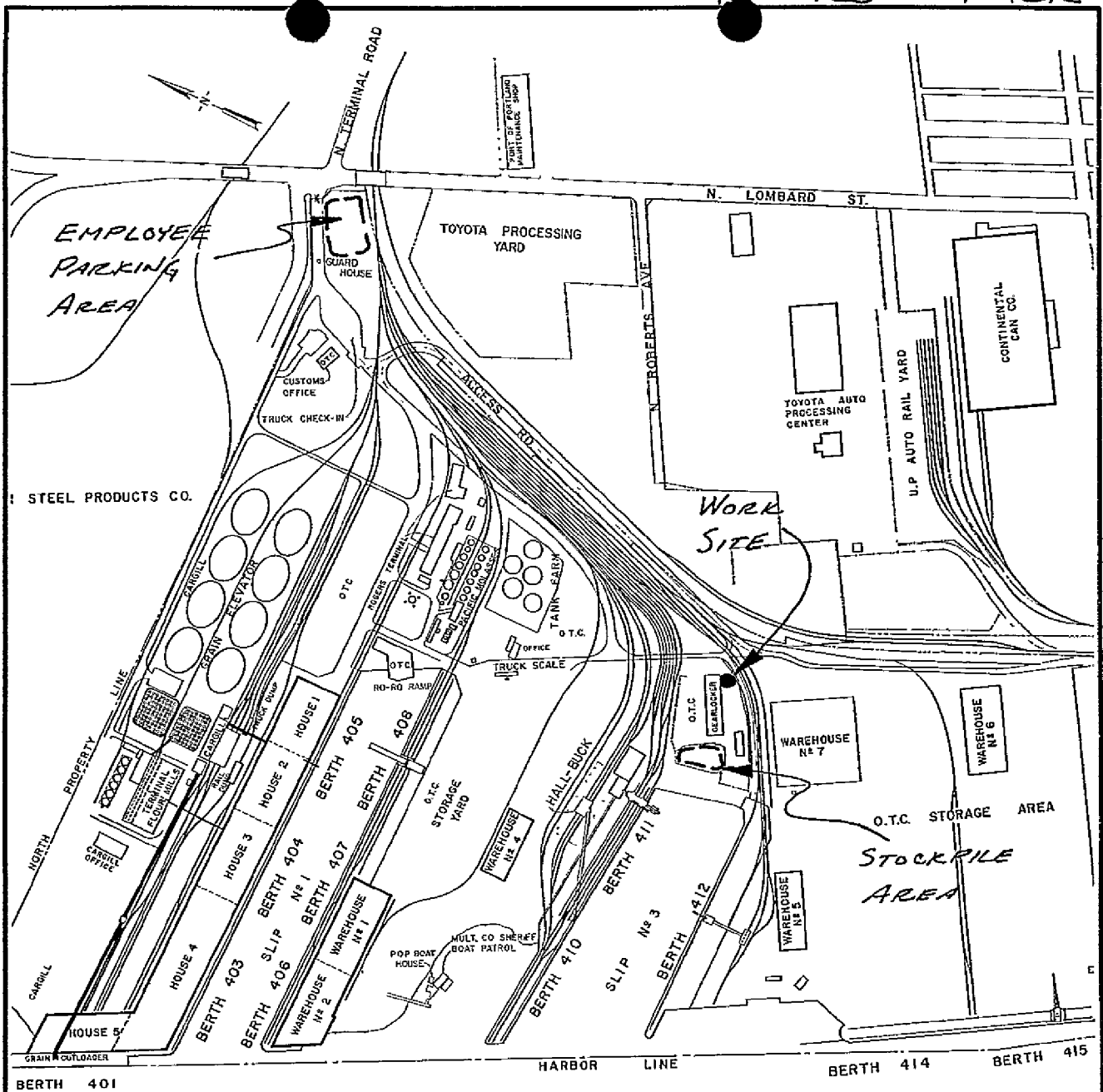
\\MARINE\\4ROGUSTD.L01



Port of Portland offices located in Portland, Oregon, U.S.A., Boise, Idaho, Chicago, Illinois, Washington, D.C., Hong Kong, Seoul, Sydney, Taipei, Tokyo

T4T900001628

To: TED WINTER



WILLAMETTE
RIVER

SITE PLAN

TERMINAL NO. 4

600 0 600 1200
SCALE IN FEET

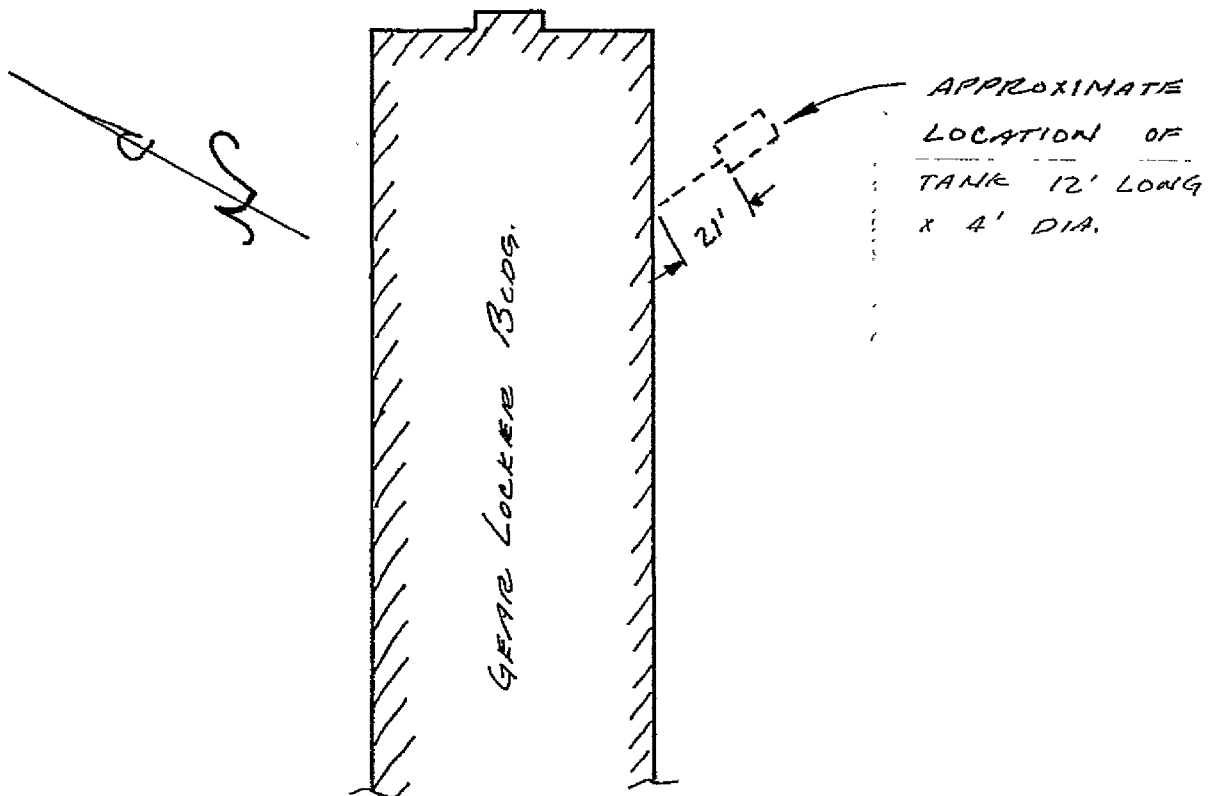


Port of Portland
Project T4 JONES GEARLOCKER
U.S.T. REMOVAL
Engineering Assignment No. 905087

By T.W./D.M.
Date 12/5/90
Checked T.W.
Sheet No. 1 of 2

Redacted

T4T900001629



NOTE: MEASUREMENTS SHOWN ARE APPROXIMATE AND WERE DERIVED BY AN ABOVE GROUND SURVEY WITH METAL DETECTION EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY.

WORK SITE PLAN
N.T.S.



Port of Portland
Project T.A. JONES GEARLOCKER
U.S.T. REMOVAL
Engineering Assignment No. 905087

By T.W./D.M.
Date 12/5/90
Checked T.W.
Sheet No. 2 of 2

Redacted

T4T900001630

PLEASE PRINT IN INK OR TYPE

WASTE PROFILE SHEET CODE

(SHADED AREAS FOR CHEMPRO USE ONLY)

1. Generator Name: Port of Portland 2. Generator, USEPA/ ID: ORD 98/ 771546
3. Facility Address: Terminal 4, Pier 2 ; PO Box 3529 10801 N Lombard Street
City: Portland State: Oregon Zip Code: 97208
4. Generator Contact: Phil Ralston, Hahn Assoc. Title: Scientist 6. Phone: (503) 296-0717

1. ☐ Generating Facility (A, above), or

2. Company Name: Hahn and Assoc, Inc 3. Phone: (503) 796-0717
4. Address: 434 NW 6th Avenue, Suite 203
City: Portland State: Oregon Zip Code: 97209-3600
5. Attn: Phil Kalster

2. PROCESS GENERATING WASTE unknown

#. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?

☐ Yes ☒ No If yes, contact your CHEMPRO sales representative for assistance before completing this form.

1. COLOR: 	2. PHYSICAL STATE @ 70°F: <input type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Powder Other: _____	3. Layers: <input type="checkbox"/> Multilayered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phased	4. Specific Gravity: Range: <u>1-1.2</u>	5. Free Liquids <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume: <u>100</u> %
-------------------	---	---	---	--

6. pH: ☐ < 2 ☐ 2-4 ☐ 4-6 ☒ 6-8 ☐ 8-10 ☐ 10-12.5 ☐ > 12.5 ☐ Range _____ ☐ NA

7. Liquid Flash Point: ☐ < 70°F ☒ 70-99°F ☐ 100-139°F ☐ 140-199°F ☒ > 200°F ☐ None ☐ Closed Cup ☐ Open Cup

[illegible]

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%.

2. Indicate if this waste contains any of the following:

NONE OR LESS THAN OR ACTUAL

PCB's	<input checked="" type="checkbox"/>	< 50 ppm	_____ ppm
Cyanides	<input checked="" type="checkbox"/>	< 50 ppm	_____ ppm
Phenolics	<input checked="" type="checkbox"/>	< 50 ppm	_____ ppm
Sulfides	<input checked="" type="checkbox"/>	< 50 ppm	_____ ppm

F. METALS Indicate if this waste contains any of the following:

1. <input type="checkbox"/> EP TOX/TCLP		or	2. <input type="checkbox"/> Total	
METAL	LESS THAN	or	ACTUAL	
(Parts Per Million)				
Arsenic	<input checked="" type="checkbox"/> < 5	<input type="checkbox"/> < 500	<u>NT</u>	
Barium	<input checked="" type="checkbox"/> < 100		<u>u</u>	
Cadmium	<input checked="" type="checkbox"/> < 1	<input type="checkbox"/> < 100	<u>u</u>	
Chromium	<input checked="" type="checkbox"/> < 5		<u>u</u>	
Lead	<input checked="" type="checkbox"/> < 5	<input type="checkbox"/> < 500	<u>u</u>	
Mercury	<input checked="" type="checkbox"/> < 0.2	<input type="checkbox"/> < 20	<u>u</u>	
Selenium	<input checked="" type="checkbox"/> < 1	<input type="checkbox"/> < 100	<u>u</u>	
Silver	<input checked="" type="checkbox"/> < 5		<u>u</u>	
Chromium-Hex	<input checked="" type="checkbox"/> < 5	<input type="checkbox"/> < 500	<u>u</u>	
Copper	<input checked="" type="checkbox"/> < 5		<u>u</u>	
Nickel	<input checked="" type="checkbox"/> < 5	<input type="checkbox"/> < 134	<u>u</u>	
Thallium	<input checked="" type="checkbox"/> < 5	<input type="checkbox"/> < 130	<u>u</u>	
Zinc	<input checked="" type="checkbox"/> < 5		<u>u</u>	
	<input type="checkbox"/> <			
	<input type="checkbox"/> <			
	<input type="checkbox"/> <			

TURN PAGE AND COMPLETE OTHER SIDE

Redacted

T4T900001631

GENERATOR'S WASTE MATERIAL PROFILE SHEET (Continued)

CP# 56333
WASTE PROFILE SHEET CODE

G. OTHER HAZARDOUS CHARACTERISTICS

1. Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☒ Yes ☐ No
2. Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☐ Yes ☒ No
3. Indicate if this waste is any of the following:
- | | | | |
|---|--|--|---|
| <input type="checkbox"/> RCRA Reactive | <input type="checkbox"/> Shock Sensitive | <input type="checkbox"/> Ecological | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Water Reactive | <input type="checkbox"/> Pyrophoric | <input type="checkbox"/> Pesticide Manufacturing Waste | |
| <input type="checkbox"/> Explosive | <input type="checkbox"/> Radioactive | <input type="checkbox"/> Flammable Solid | <input checked="" type="checkbox"/> None of the Above |

H. USEPA/STATE INFORMATION

1. USEPA Hazardous Waste? ☒ Yes ☐ No
2. USEPA Hazardous Waste Number(s): F002
3. State Hazardous Waste? ☒ Yes ☐ No
4. State Hazardous Waste Number(s): F002

I. SHIPPING INFORMATION

1. Is this a DOT Hazardous Material? ☒ Yes ☐ No
2. CERCLA Reportable Quantity (RQ): 1000 (lb)
3. Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (Type/Size): 17-E, 55 gallon
4. Amount to ship now / units: 1 x 55 gallon drum
5. Anticipated Annual Volume/Units: 1 drum

US DOT DESCRIPTION:

6. RQ 1000 7. PROPER SHIPPING NAME Hazardous Waste Liquid NOS

8. HAZARD CLASS ORM-E 9. DOT ID NUMBER NIA 9189 10. ADDITIONAL DESCRIPTION (F002)

J. SPECIAL HANDLING INFORMATION

if spilled, use absorbing material to contain and capture, then redrum.

☐ Additional Page(s) Attached

K. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

1. Philip A. Ralston, HAH 2. Scientist
- SIGNATURE TITLE
3. Philip A. Ralston, Hahn & Assoc., Inc. 4. 8/7/89
- NAME (TYPE OR PRINT) DATE

SHADED AREA FOR CHEMPRO USE ONLY:

SAFETY & HEALTH SCREEN

Additional Analysis 6/11/89 11:00 AM

Minimum TLV 50% of STEL Ceiling by Vapor Pressure 0.5

Vapor Density 0.5

Classification

Codes: Health Fire Reactivity PPE Target Organ

Primary Potential Toxic Effect

Signature: _____

H	HEALTH	<input type="checkbox"/>
R	REACTIVITY	<input type="checkbox"/>
P	PERSONAL PROTECTION	<input type="checkbox"/>

Redacted

T4T900001632



December 6, 1990

Phil Ralston
HAHN & ASSOCIATES INC.
434 N.W. Sixth Ave. Ste. 203
Portland, OR 97209-3600

RE: PORT OF PORTLAND T-4

Dear Phil:

Effective January 5, 1991, prices for waste received under the attached profiles will be adjusted. These price changes are a result of a combination of cost increases including:

- direct cost increases in treatment and handling of your hazardous wastestreams.
- EPA and DOE changes effective August 8, 1990.
- price increases from major disposal sources.

While some of our hazardous waste treatment costs have increased, we continue to work to find new treatment alternatives to minimize the effect of cost increases. In fact, a number of prices will not be increased and some will even be reduced.

All active profiles for your firm, with their adjusted prices and expiration dates, are listed on the enclosed notification. These prices will become effective January 5, 1991 and will remain in effect until the listed expiration date, unless you receive a new price change notification.

Please review this notification carefully. If you feel an error has been made, contact your sales representative at (206) 835-8743. We at CHEMPRO appreciate your continued confidence in our management of your hazardous waste requirements.

Respectfully yours,

Alan C. Kakovich
Division Sales Manager

ACK:em
Enclosure

CHEMICAL PROCESSORS, INC.
WASHOUGAL SALES OFFICE

P.O. Box 229 • Washougal, Washington 98671 • (206) 835-8743 • FAX: (206) 835-8872

Redacted

T4T900001633

OFFICIAL NOTIFICATION

December 6, 1990

In accordance with Section E of our Waste Management and Transportation Agreement, CHEMPRO is required to notify our customers 30 days in advance of any price change as set forth in Exhibit B of our supplement. This serves as the notice that the disposal prices listed below will become effective January 5, 1991 and remain in effect until the expiration date of the profile, unless you receive another price change notification.

To comply with The Chempro Waste Analysis Plan, as required by the Washington State Department of Ecology, all profiles must be recertified on an annual basis instead of a biannual one. The expiration date of profiles approved in 1990 has been changed from 1992 to 1991.

GENERATOR: HAHN & ASSOCIATES INC.

<u>Profile #</u>	<u>New Price</u>	<u>Expiration</u>
56333	\$125.00/Drum	08/91
Profile Fees	\$150.00/each	

Redacted

T4T900001634

1991 Hazardous Waste Status Determination
(pounds of hazardous waste manifested per month by facility)

EPA ID #

FACILITY

Month	PDX Maint.	PDX Fire	PTA	PHA	PMA	T-2	T-4	T-4 Maint.	T-5	T-6	PSY	Nav/ Dredge	Property	POP Bldg.
January	131 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	660 lbs. SQG	90 lbs. CEG	0 lbs. CEG	172 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
February	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
March	131 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	374 lbs. SQG	0 lbs. CEG	0 lbs. CEG	516 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
April	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	86 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
May	2,379 lbs. LQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	913 lbs. SQG	0 lbs. CEG	0 lbs. CEG	1,577 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
June	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	913 lbs. SQG	0 lbs. CEG	0 lbs. CEG	479 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
July	217 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	262 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
August	131 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	688 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	982 lbs. SQG
September	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	81 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
October	303 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	131 lbs. CEG	112,300 lbs. LQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
November	1,411 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	434 lbs. SQG	71,442 lbs. LQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
December	131 lbs. CEG	0 lbs. CEG	457 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG	131 lbs. CEG	1,343 lbs. SQG	0 lbs. CEG	0 lbs. CEG	0 lbs. CEG
Status for 1991 HWR and TUR	LQG	CEG	SQG	CEG	CEG	CEG	SQG	SQG	CEG	SQG	LQG	CEG	CEG	SQG

CEG - Conditionally Exempt Generator

SQG - Small Quantity Generator

LQG - Large Quantity Generator

HWR - Hazardous Waste Reports

TUR - Toxic Use Reduction Reports



Shaded areas indicate months of no hazardous waste manifestation

Ted Winter

The Port of Portland
P.O. Box 3529
Portland, Oregon 97208

January 2, 1991

REQUEST FOR BIDS
TERMINAL 4
JONES GEARLOCKER
UST REMOVAL
PROJECT NO. 51261-509
ENGINEERING ASSIGNMENT NO. 90S087

Description of Work:

Removal of a 1,000 gallon underground waste oil storage tank at Terminal 4, excavation, backfill, asphalt patching, and, if required, disposal of contaminated soil.

Enclosed are the contract documents for the subject work. You are invited to submit a bid for this work.

A prebid conference will be held at 10 a.m. on January 7, 1990, at the Marine Facility Maintenance Building, 10801 N. Lombard to discuss all phases of the work.

Bids must be submitted on the attached Bid Form and received by The Port of Portland, Contracts and Procurement, 700 N.E. Multnomah Street, 15th floor, Portland, Oregon, by 5 p.m. January 11, 1991. Submittal by FAX to No. 231-5480 is acceptable.

Bidders are required to be registered with the State of Oregon Construction Contractors Board, pursuant to ORS 701.055 (1), prior to submitting a bid.

Bids may be rejected if not in compliance with bidding procedures and requirements. Any or all bids may be rejected if in the public interest to do so.

Direct technical questions to the Project Engineer, Ted Winter, (503) 231-5000, Extension 396.

R. Stempel

Ron Stempel
Manager
Contracts and Procurement

AS BID

Enclosures: Contract Documents (including the Bid Form)

2303S

T4T900001636

THE PORT OF PORTLAND
P.O. BOX 3529
PORTLAND, OREGON 97208

TERMINAL 4
JONES GEARLOCKER
UST REMOVAL

BID FORM

The bidder submits and proposes the following unit bid prices, to wit:

<u>BID ITEM NO.</u>	<u>NAME OF BID ITEM</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT</u>	<u>UNIT BID</u>	<u>AMOUNT BID</u>
1	Underground Storage Tank Removal	----	L.S.	----	_____
2	Removal and Stockpiling of Contaminated Soil (only required if contaminated soil is encountered)	100	C.Y.	_____	_____
TOTAL AMOUNT BID (BASIS OF AWARD):		----	----	----	\$_____

Within 10 days after Notice of Award indicating acceptance of the bid by the Port, the successful bidder shall execute and deliver the Agreement and the Performance and Payment Bond to the Port. The Performance and Payment Bond shall be for the total amount bid. The Agreement and the Performance and Payment Bond shall be on the forms provided by the Port.

The bidder hereby acknowledges receipt of Addendum Nos. _____, _____, _____, _____, _____ to these contract documents.

State of Oregon Construction Contractors Board Registration No. _____
(Required for Bidding)

CONTRACTOR:

Signature

Name (typed)

Address:

Telephone Number: _____

Date: _____

AGREEMENT

Agreement Number

THE PORT OF PORTLAND
P. O. BOX 3529
PORTLAND, OREGON 97208

TERMINAL 4
JONES GEARLOCKER
UST REMOVAL

THIS AGREEMENT made and entered into this ____ day of _____,
19__, by and between The Port of Portland, a municipal corporation
of the State of Oregon, hereinafter called "Port," and _____

of _____,
hereinafter called "Contractor."

W I T N E S S E T H:

That Contractor in consideration of the covenants, agreements and
payments to be performed and made by Port, hereby covenants and agrees
to provide all necessary labor, materials, transportation, equipment,
and other means required to execute, construct and furnish in full
compliance with the contract documents, in an expeditious, substantial
and workmanlike manner, the work and material hereinafter particularly
described:

TERMINAL 4
JONES GEARLOCKER
UST REMOVAL

Contractor agrees that the following are hereby made a part of this
Agreement and are mutually cooperative therewith: (1) a copy of
Contractor's Bid signed on _____, 19__, including any
documentation accompanying the Bid; (2) this Agreement, including any
post-Bid documentation submitted prior to Purchase Order and attached
as an exhibit to this Agreement; (3) Performance and Payment Bond;
(4) General Conditions; (5) Supplementary Conditions; (6) Wage Rates;
(7) Drawings; (8) Specifications; (9) Addenda; and (10) all
Modifications issued after execution of this Agreement.

Contractor promises that all work shall be substantially completed
30 days after authorization to commence work. The Contractor agrees
to pay, as liquidated damages to the Port for any delay, the sum of
\$150 per day for each day of delay beyond the substantial completion
date so promised.

Contractor must obtain the prior written consent of Port to any
proposed assignment of any interest in or part of this Agreement.
Such consent shall be at the sole discretion of Port.

Under the same date as this Agreement, Contractor is furnishing Port with corporate surety bonds with _____ as surety in the amount of _____. This bond shall insure complete performance by Contractor of this Agreement in accordance with all of its terms and provisions.

Contractor agrees to diligently prosecute the work to final acceptance and to accept as full payment hereunder the amounts specified in the Bid; and Port agrees to make payments, at the time, in the amount, and upon the terms and conditions specified herein.

Contractor agrees to comply with all federal and state laws and regulations regarding nondiscrimination in employment, employee benefits and facilities.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly executed:

CONTRACTOR

THE PORT OF PORTLAND

(Full Name of Corporation)

Executive Director

BY: _____
(Signature)

Approved as to Legal Sufficiency:

NAME: _____
(Print)

Counsel for Port of Portland

TITLE: _____

THE PORT OF PORTLAND

KNOW ALL MEN BY THESE PRESENTS: We _____
as Principal and _____, a corporation
authorized to transact a surety business in the State of Oregon, as
Surety, are jointly and severally held and bound unto THE PORT OF
PORTLAND, a port district, in the sum of _____

The condition of this bond is such that, whereas on the _____
day of _____ 19____ the said _____

_____, Principal, made and entered into
an Agreement with THE PORT OF PORTLAND. Copies of the Agreement together
with all Contract Documents are attached and made a part hereof.

NOW, THEREFORE, this obligation under the Agreement shall become null and
void if the Principal, within the time prescribed and during the life of
any guaranty: (1) observes and complies with the terms, conditions and
provisions of said Agreement in all respects, including those listed in
ORS 279.310 to 279.320; (2) performs all matters and things specified or
shown within the time prescribed or as extended; (3) defends, indemnifies,
saves, and holds harmless THE PORT OF PORTLAND, its Board of
Commissioners, officers, agents, and employees; (4) makes payment promptly
to all persons supplying labor or materials to the Principal or the
Principal's subcontractors for prosecution of the work; (5) makes payment
promptly of all contributions due for workers' compensation insurance and
the State Unemployment Compensation Fund from the Principal or the
Principal's subcontractors in connection with prosecution of the work;
(6) pays the Department of Revenue all sums required to be deducted from
the wages of employees of the Principal and the Principal's subcontractors
pursuant to the Personal Income Tax Act of 1969; and (7) performs and
fulfills all provisions of any extensions and modifications authorized by
THE PORT OF PORTLAND, with or without notice to the Surety, which is
expressly waived; otherwise it remains in full force and effect. By
issuing this bond, the Surety agrees to be bound by the arbitration
provisions of the Contract Documents.

IN WITNESS WHEREOF, the Principal and Surety herein have caused this
bond to be signed and sealed this _____ day of _____ 19____.

PRINCIPAL: _____

Signature: _____

SURETY COMPANY: _____

Attorney-in-Fact: _____

Address: _____

Telephone Number: _____

GENERAL CONDITIONS

A. Definitions

Addenda - Written or graphic instruments issued prior to bid opening which clarify, correct or change the bidding documents or the Contract Documents.

Change Order - A written order to CONTRACTOR issued by ENGINEER authorizing an addition, deletion, or revision in the work, or an adjustment in the contract price or the contract time issued after the effective date of the purchase order.

Construction Contract Manager - The authorized representative of ENGINEER who is assigned to the work.

Contract Documents - CONTRACTOR'S signed bid, including any documentation accompanying the bid, these General Conditions; Drawings; Specifications; and Addenda.

CONTRACTOR - The person, firm or corporation with whom PORT has contracted with in the form of a purchase order

Day - A calendar day of 24 hours measured from midnight to the next midnight.

Day, business - Monday through Friday when PORT offices are open for business.

ENGINEER - The individual specified in writing by PORT to act as such under this purchase order, acting directly or through an assistant or representative.

Submittals - All brochures, diagrams, drawings, illustrations, instructions, performance charts, schedules, and other data which are specifically submitted by CONTRACTOR to illustrate some portion of the work.

B. Execution and Submission of Bid

1. Bids will be received in accordance with instructions in the cover letter.
2. When the bid form provides for writing the bid price in words and numerals, the price as written in words shall govern over the price written in numerals.
3. In the case of unit bid prices, if there is a conflict between the amount bid and the product of the estimated quantity and the unit bid price, the unit bid price shall prevail and the corrected product will be used in computing the total amount bid.

C. Contractor's Responsibilities

1. Scope: CONTRACTOR shall, in consideration of payment(s) to be made by PORT, provide all necessary labor, materials, transportation, equipment, incidentals, and other means required to complete the work in accordance with the requirements of the Contract Documents.
2. License Requirement: CONTRACTOR and subcontractors shall be licensed to do work in the appropriate jurisdiction.
3. Insurance: CONTRACTOR shall hold The Port of Portland, its commissioners, directors, officers, employees, and agents harmless from and against any and all liability, or claims of liability, which may be asserted against PORT on account of any injury or injuries (including death) to any person or persons whomsoever, or any damage or loss to property, however caused, arising out of or in any way connected with, directly or indirectly, the execution of this purchase order. CONTRACTOR shall maintain commercial general liability and automobile liability insurance protection against any and all claims for damages to persons or property which may arise out of operations under this purchase order, whether such operations be by himself or a subcontractor or by anyone directly or indirectly employed by either of them. Such insurances shall be in an amount of not less than \$1,000,000 combined single limit for property damage and bodily injury. Such insurance shall name PORT as additional insured with respect to work performed under this contract. Two certificates of such insurance, issued by an insurance company licensed to do business in the State of Oregon, shall be filed with PORT before commencing the work and shall be subject to the review and approval of PORT.
4. Kind and Quality of Materials: All materials incorporated into the work shall be new, except as otherwise provided in the Contract Documents. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence as to the kind and quality of materials. Satisfactory evidence may include reports of required tests. All materials shall be of good quality.
5. Acts and Omissions: CONTRACTOR is responsible for the acts and omissions connected with the work of persons directly or indirectly employed, including subcontractors and their employees.
6. Labor Relations: CONTRACTOR shall be responsible for labor relations and seek to adjust disputes between himself and his employees. Any labor dispute arising from this contract that causes a disruption of PORT operations shall be to the account of and the responsibility of CONTRACTOR.
7. Labor, Materials, and Services:
 - a. In accordance with the provisions of Oregon Revised Statutes (ORS 279.312), it is agreed that CONTRACTOR shall make payment promptly as due to all persons supplying to CONTRACTOR labor or material for the prosecution of the work provided for herein.
 - b. To the extent required by Oregon law, CONTRACTOR shall comply with the terms of the Workers' Compensation laws and the Unemployment Compensation laws. Before commencing work, CONTRACTOR shall provide PORT with evidence in duplicate of his compliance therewith. CONTRACTOR shall pay all contributions or amounts due for workers' compensation insurance.
 - c. CONTRACTOR shall not permit any lien or claims to be filed or prosecuted against PORT on account of any labor or material furnished.

- d. CONTRACTOR shall pay to the State Tax Commission all sums withheld from employee pursuant to ORS 315.575 to 316.575.
- e. Pursuant to ORS 279.314, it is agreed that if CONTRACTOR fails, neglects or refuses to make prompt payment of any claim for labor or services furnished to CONTRACTOR by any person in connection with this purchase order as such claim becomes due, the proper officer or officers representing PORT may pay such claim to the person furnishing the labor service and charge the amount of the payment against CONTRACTOR. The payment of a claim in the manner authorized in this paragraph shall not relieve CONTRACTOR or his surety from its obligation with respect to any unpaid claim.
- f. Pursuant to ORS 279.316, it is a condition of this agreement that no person shall be employed by CONTRACTOR for more than 8 hours in any one Day, or 40 hours in any one week, except in cases of necessity, emergency or where the public policy absolutely requires it, and in such cases the laborer shall be paid at least time and a half pay for all overtime in excess of 8 hours a Day and for work performed on Saturdays and on any legal holiday specified in ORS 279.334.
- g. Pursuant to ORS 279.320, it is an express condition of this agreement that CONTRACTOR shall promptly, as due, make payment to any person, co-partnership, association or corporation furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such CONTRACTOR, of all sums which CONTRACTOR may or shall have deducted from the wages of his employees for such services pursuant to the terms of ORS 655.010 to 655.160, and any contract entered into pursuant to any law, contract or agreement for the purpose of providing or paying for such service.

PARAGRAPHS h, i, AND j DO NOT APPLY WHEN
THE CONTRACT AMOUNT IS LESS THAN \$10,000

- h. All workers covered under the provisions of this paragraph shall be paid not less than the prevailing hourly wage rates specified by the State of Oregon Bureau of Labor and Industries (copies available at PORT offices). Such hourly wage rates, which must be paid to workers in each trade or occupation required under this contract, either by CONTRACTOR or subcontractor or other person doing or contracting to do the whole or any part of the work contemplated, is hereby specified to be those hourly wage rates which are not less than the prevailing wage rates as defined in ORS 279.348 to 279.356.
- i. If any dispute arises as to what is the prevailing wage rate for the same trade or occupation and cannot be settled between CONTRACTOR and PORT, the dispute shall be referred to the Commissioner of the Bureau of Labor, who shall determine the prevailing wage rate for the same trade or occupation in the locality.
- j. Before payment is made of any sum due on account of this agreement, CONTRACTOR or his surety and every subcontractor or his surety shall file a statement with the Port of Portland and the State of Oregon in writing, in a form prescribed by the State of Oregon Bureau of Labor and Industries, certifying the hourly wage rate paid each classification or worker employed by him upon this work has been paid not less than the prevailing wage rate or less than the minimum hourly wage rate specified in the contract which certificate and statement shall be verified by the oath of CONTRACTOR or his surety or subcontractor or his surety that he had read such statement and certificate and knows the contents thereof and that the same is true to his knowledge (instructions and forms follow).

D. Engineer's Status During Construction

ENGINEER will decide any and all questions which arise as to the quality and acceptability of work performed, and as to the manner of performance and rate of progress of said work. He will decide all questions which may arise as to the interpretation of the Contract Documents relating to the work, and the fulfillment of the purchase order on the part of the successful bidder.

E. Change of Contract Price or Time

1. Without invalidating the purchase order, PORT may at any time order additions, deletions, or revisions in the work by Change Order.
2. If any Change Order causes an increase or decrease in the contract price, an equitable adjustment will be made on the basis of a fixed price quote or time and materials, as requested and approved by the Engineer.
3. If any Change Order causes an extension or shortening of the contract time, an equitable adjustment will be made in the completion time specified.
4. Upon receipt of a Change Order, CONTRACTOR shall proceed with the work involved. All such work shall be executed under the applicable conditions of the Contract Documents.

F. Terminate the Work

It is an express condition of this purchase order that said work may be canceled at the election of PORT for any willful failure or refusal on the part of CONTRACTOR to faithfully perform the work in accordance with the Contract Documents.

G. Payments to Contractor

Progress payment(s) may be made, at the option of ENGINEER. Application for final payment shall be accompanied by full waiver of liens for materials and labor from subcontractors and suppliers for the work. (Lien Waiver form is available from the Engineer).

NAME OF CONTRACTOR OR SUBCONTRACTOR 				ADDRESS																
				Phone: () -																
FOR WEEK ENDING	CONTRACTING AGENCY			PROJECT AND LOCATION						PROJECT OR CONTRACT NO.			DATE CONTRACT SPECIFICATIONS FIRST ADVERTISED FOR BID							
Phone ()																				
(1) NAME, ADDRESS, AND SOCIAL SECURITY NUMBER OF EMPLOYEE	(2) # of W/H	(2) EXEMPTIONS	(3) WORK CLASSIFICATION (include group number if applicable)	OT. OR ST.	(4) DAY AND DATE							(5) TOTAL HOURS	(6) RATE OF PAY	(7) GROSS AMOUNT EARNED	(8) DEDUCTIONS					(9) NET WAGE PAID FOR WEEK
					HOURS WORKED EACH DAY										FICA	FEDERAL WITH- HOLDING TAX	STATE WITH- HOLDING TAX	OTHER	TOTAL DEDUC- TIONS	
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CERTIFIED STATEMENT

I, _____,
(Name or signatory party) (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

_____ on the _____
(Contractor, subcontractor or surety) (Building or work)

_____ ; that during the payroll commencing on the _____
day of _____, 19____, and ending the _____ day of

_____, 19____, all persons employed on said project have been
paid the full weekly wages earned, that no rebates have been or will be made
either directly or indirectly to or on behalf of said _____

(Contractor, subcontractor or surety)

from the full weekly wages earned by any person and that no deductions have been
made either directly or indirectly from the full wages earned by any person,
other than permissible deductions as specified in ORS 652.610, and described
below:

(2) That any payrolls otherwise under this contract required to be submitted
for the above period are correct and complete; that the wage rates for workers
contained therein are not less than the applicable wage rates contained in any
wage determination incorporated into the contract; that the classifications set
forth therein for each worker conform with work performed.

(3) That any apprentices employed in the above period are duly registered in a
bona fide apprenticeship program registered with a State apprenticeship agency
recognized by the Bureau of Apprenticeship and Training, United States Department
of Labor, or if no such recognized agency exists in a State, are registered with
the Bureau of Apprenticeship and Training, United States Department of Labor.

FORM WH-34 (1/84)

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS OR PROGRAMS
In addition to the basic hourly wage rates paid to each worker listed
in the above referenced payroll, payments of fringe benefits as
listed in the contract have been or will be made to appropriate
programs for the benefit of such employees, except as noted in
Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH
Each worker listed in the above referenced payroll has been paid,
as indicated on the payroll, an amount not less than the sum of
the applicable basic hourly wage rate plus the amount of the
required fringe benefits as listed in the contract, except as noted
in Section 4(c) below.

(c) EXEMPTIONS

EXCEPTION (CRAFT)	EXPLANATION
REMARKS	

I have read this certified statement, know the contents thereof and it is
true to my knowledge.

NAME AND TITLE	SIGNATURE
<input type="checkbox"/> Contractor	<input type="checkbox"/> Subcontractor <input type="checkbox"/> Surety

File this form with the contracting agency and send a true copy to the
Bureau of Labor and Industries, 1400 SW Fifth Ave., Portland, OR 97201

BUREAU OF LABOR AND INDUSTRIES - WAGE AND HOUR DIVISION

INSTRUCTIONS FOR COMPLETING PAYROLL AND CERTIFIED STATEMENT FORM, WH-38 (Rev 3/84)

General: This form meets needs resulting from the 1983 amendments to the Prevailing Wage Rate Law. Under this amended law, the contractor is required to pay not less than fringe benefits as predetermined by the Bureau of Labor and Industries, in addition to payment of not less than the predetermined rates. The contractor's obligation to pay fringe benefits may be met either by payment of the fringes to the various plans, funds, or programs or by making these payments to the employees as cash in lieu of fringes.

This form provides for the contractor's showing of the payroll and all monies paid to the employees, whether as basic rates or as cash in lieu of fringes and provides for the contractor's representation in the certified statement that he/she is paying to others fringes required by the contract and not paid as cash in lieu of fringes. Detailed instructions concerning the preparation of the form follow:

Fill in all boxes at top of form. Be sure to enter the date the contract was first advertised for bid by the contracting agency. This date should appear on the bid documents.

Column 1 - Name, Address, and Social Security number of Employee: The employee's full name must be shown on each payroll submitted. The employee's address must also be shown on the first payroll submitted. The address need not be shown on subsequent payrolls unless the address changes. Although not required, space is available in the name and address section so that Social Security numbers may be listed.

Column 2 - Withholding Exemptions: This column is merely inserted for the employer's convenience and is not a requirement.

Column 3 - Work Classifications: List classification descriptive of work actually performed by employees. Include group number when appropriate. Consult classifications and minimum wage schedule set forth in contract specifications. If additional classifications are deemed necessary, see Contracting Officer or Agency representative. Employee may be shown as having worked in more than one classification provided accurate breakdown of hours so worked is maintained and shown on submitted payroll by use of separate line entries.

Column 4 - Hours Worked: Enter as overtime hours all hours worked in excess of 8 hours per day, all hours worked on Saturday and Sunday and hours worked on legal holidays as defined in ORS 279.334.

Column 5 - Total: Self-explanatory.

Column 6 - Rate of Pay, including Fringe Benefits: In straight time box, list actual hourly rate paid the employee for straight time worked plus any cash in lieu of fringes paid the employee. When recording the straight time hourly rate, any cash paid in lieu of fringes may be shown separately from the basic rate, thus \$12.50/2.35. This is of assistance in correctly computing overtime. See "Fringe Benefits" below. Payment of not less than time and one half the basic or regular rate paid is required for overtime under ORS 279.334. In addition to paying not less than the predetermined rate for the classification in which the employee works, the contractor shall pay to approved plans, funds, or programs or shall pay as cash in lieu of fringes amounts predetermined as fringe benefits in the wage decision made part of the contract. See "FRINGE BENEFITS" below.

FRINGE BENEFITS -- Contractors who pay all required fringe benefits: A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Commissioner of the Bureau of Labor and Industries shall continue to show on the payroll the basic cash hourly rate and overtime rate paid to employees. Such a contractor shall check paragraph 4(a) of the Certified Statement to indicate that he/she is also paying to approved plans, funds, or programs not less than the amount predetermined as fringe benefits for each craft. Any exceptions shall be noted in Section 4(c).

Contractors who pay no fringe benefits: A contractor who pays no fringe benefits shall pay to the employee, and insert in the straight time hourly rate column of the payroll, an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringes, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on basic or regular rate, plus the required cash in lieu of fringes at the straight time rate. In addition, the contractor shall check paragraph 4(b) of the Certified Statement to indicate that he/she is paying fringe benefits in cash directly to employees. Any exceptions shall be noted in Section 4(c).

Use of Section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination required is obliged to pay the deficiency directly to the employees as cash in lieu of fringes. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in Section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employee as cash in lieu of fringes and the hourly amount paid to plans, funds, or programs as fringes. The contractor shall pay, and shall show that he/she is paying to each such employee for all hours (unless otherwise provided by applicable determination) worked on the project an amount not less than the predetermined rate plus cash in lieu of fringes as shown in Section 4(c). The rate paid and amount of cash paid in lieu of fringe benefits per hour should be entered in column 6 on the payroll. See paragraph on "Contractors who pay no fringe benefits" for computation of overtime rate.

Column 7 - Gross Amount Earned: Enter gross amount earned on this project. If part of the employees' wage was earned on projects other than the project described on this payroll, enter in column 7 first the amount earned on the project and then the gross amount earned on all projects, thus \$63.00/120.00.

Column 8 - Deductions: Four columns are provided for showing deductions made. If more than four deductions should be involved; use first 3 columns; show the balance of deductions under "Other" column; show actual total under "Total Deductions" column; and in the attachment to the payroll describe the deductions contained in the "Other" column. All deductions must be in accordance with the provisions of ORS 652.610. If the employee worked on other jobs in addition to this project, show actual deductions from gross wage, but indicate that deductions are based on gross wages.

Column 9 - Net Wages Paid for Week: Self-explanatory.

Certified Statement Required by ORS 279.354: While this form need not be notarized, the Certified Statement is subject to the penalties provided by ORS 279.990. Accordingly, the party signing this required statement should have knowledge of the facts represented as true.

Space has been provided between items (1) and (2) of the Statement for describing any deductions made. If all deductions made are adequately described in the "Deductions" column above, state "See Deductions column in this payroll." See paragraph entitled "FRINGE BENEFITS" above for instructions concerning filling out paragraph 4 of the Statement.

SUPPLEMENTARY CONDITIONS

A. General

1. These supplements modify, delete from, or add to the General Conditions.
2. Where an article, paragraph, or clause of the General Conditions is modified or deleted by these supplements, the unaltered provisions of that article, paragraph, or clause remain in effect.

B. Extended Insurance Coverage

1. See the General Conditions (Page GC-1), Item C, Paragraph 3. In addition to the standard coverages afforded by the commercial general liability policy specified, coverage shall be extended to include explosion, collapse, and underground hazards.

C. One-Year Correction Period

1. If any Work is found to be defective:
 - a. Within one year after the date of Final Acceptance.
 - b. Or such longer time prescribed by law.
 - c. Or by the terms of any special guaranty required by the Contract Documents.
 - d. Or by any specific provision of the Contract Documents.

CONTRACTOR shall correct such defective Work:

- a. Promptly.
- b. Without added cost to PORT.
- c. In accordance with ENGINEER's written instruction.

Or if it has been rejected by ENGINEER:

- a. Remove it from the site.
- b. Replace it with nondefective Work.

If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, PORT may have the defective Work corrected or the rejected Work removed and replaced, and all direct and indirect costs of such removal and replacement, including compensation for additional professional services, shall be paid by CONTRACTOR.

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

Section 01.010 Summary of Work

010.01 Scope

- A. The work includes but is not limited to: Excavation and removal of a 1,000 gallon underground waste oil storage tank at Terminal 4, backfill, asphalt patching, and, if required, disposal of contaminated soil. Port will ensure tank is essentially empty prior to start of work.

010.02 Completion Time

- A. Contractor shall contact Engineer to gain authorization to commence work. All work shall be substantially completed 30 days after authorization to commence work. The Contractor agrees to pay, as liquidated damages to the Port for any delay, the sum of \$250 per day for each day of delay beyond the substantial completion date so promised.

010.03 Drawings

- A. See drawings attached to the end of these specifications.

010.04 Inspection of Work Area

- A. Contractor shall carefully examine the work area and satisfy him/herself as to the conditions of the work involved and the quantities of materials required for the performance of the work.

010.05 Verification of Measurements

- A. Contractor shall verify all elevations and measurements and shall be responsible that executed dimensions fit actual conditions, regardless of the drawings, and shall report any discrepancies to Engineer before proceeding with the work. Contractor will not receive extra compensation for verification of measurements or for any labor or material expended on account of such differences.

010.06 Disposal

- A. Dispose of waste material off Port property and in accordance with applicable State, Federal, and local regulations. Disposal must be documented as specified in Section 02.085, Article 3.05.
- B. Burning or burying of waste material within the excavation or any other Port property is not permitted.
- C. Disposal of waste material within a river, stream, wetland, or other waterway or waterfront is not permitted.

010.07 Release of Petroleum Products, Paint, and Other Contaminants

- A. Protect against and prevent the entry of petroleum products, paint, and other contaminants into a waterway (including river, stream, slough, wetland, etc.) storm sewer, sanitary sewer, or other drain system or onto a land area.
- B. In the event of a spill into a waterway or drain system or onto a land area, immediately contain and remove the spilled material. Indemnify the Port from loss or expense as a result of such spill for which the Contractor is responsible.

010.08 Notification

- A. Immediately notify the Engineer of a spill and the action taken to contain the spill. Also, see "Release of Petroleum Products, Paint, and Other Contaminants".
- B. Immediately notify the Engineer if soil contamination is discovered which indicates a release of petroleum products, paint, or other contaminants to the environment.

010.09 Uniform Building Code

- A. Work shall conform to the latest adopted edition of the Uniform Building Code, as enforced by the City of Portland Bureau of Buildings.

010.10 Progress Meetings

- A. Job meetings may be held between Contractor and Engineer. The time and place of the meetings will be established by Engineer.

END OF SECTION

Section 01.025 Measurement and Payment

025.01 Incidental Work

- A. Consider work not listed, but necessary to complete the work, as incidental. Each bid item has incidental work associated with it. Some of the incidentals are identified. However, the list is not complete. This does not relieve the Contractor from the responsibility for completing the incidental work. Incidental work includes, but is not limited to, compacting, grading, hauling, mixing, placing, shaping, and watering, as specified.

025.02 Truck Measure Delivery Tickets

- A. Where items are paid by truck measure, each haul unit shall be measured by the Engineer and the Contractor jointly to determine the struck volume. Give each haul unit a unique number which is clearly shown on the unit. Submit a delivery ticket to the inspector for each load. Payment will only be made for material accounted for on a delivery ticket. Delivery tickets shall state project name, product delivered, haul unit number, date and time of delivery, and driver's name and signature. Heap loads to the satisfaction of the inspector to assure that delivered volume is equal to the struck volume as measured by the Engineer and the Contractor.

025.03 Bid Items

- A. Payment constitutes total compensation for furnishing materials; for preparation of these materials; and for labor, equipment, tools and incidentals necessary to complete the work as specified and shown on the drawings. Measurement will not include unauthorized work performed beyond the design limits. Replace material removed without authorization at no added cost to the Port. The method of measurement and the basis of payment for bid items will be as follows:

Bid
Item

Description

1 Underground Storage Tank Removal - L.S.

- A. Payment will be made at the contract lump sum price for the removal of the underground storage tank as shown on the attached drawings. The price includes the cost of bituminous material, pavement sawcutting, pavement removal & disposal, tack and aggregate base course, excavation, shoring, unsuitable but uncontaminated material disposal, backfill, tank disposal, and salvage of materials where required.

2 Removal and Stockpiling of Contaminated Soil - C.Y.

- A. Pay quantity will be the number of cubic yards, truck measure, of contaminated material removed and stockpiled at the designated location. The price includes excavation, shoring, hauling, stockpiling, plastic sheeting, and backfilling with clean material. This bid item is effective only if contaminated soil is discovered.
- B. Payment will be made at the contract unit price per cubic yard.

END OF SECTION

Section 01.040 Scheduling and Coordination

040.01 Port Operations

- A. Contractor shall work in coordination and cooperation with Port and other Contractors so that normal operations may be carried on without interruption.
- B. Port operations may require that certain of Contractor's operations be scheduled around Port activities. Certain areas of work may be required to be bypassed and accomplished when Port operations permit.

040.02 Port Tenants

- A. Contractor shall coordinate the work with Port tenants through Engineer. Special attention shall be given to avoid interfering with tenant operations.
- B. Some of Contractor's work may need to be scheduled around tenant activities or done on swing or graveyard shifts, or weekends and holidays.

040.03 Contractor's Schedule

- A. Allow time on the anticipated work schedule for sample testing and analysis. Turn-around time for the initial sample will typically be 1 day. Turn-around time for analysis of contaminated samples will typically be 1 week to 10 days.

040.04 Other Contractors

- A. Port reserves the right to award other contracts for work in the vicinity of work covered by this contract.
- B. The various Contractors and Engineer will mutually establish a schedule of construction for the use of common work areas.

END OF SECTION

Section 01.300 Submittals

300.01 Other Submittals

Other submittals include but are not limited to:

Section	01.025:	025.02
	01.460:	460.01
	01.700:	700.02
	02.085:	1.04, 3.02, 3.06

END OF SECTION

Section 01.400 Quality Control

400.01 Inspection and Testing

- A. No work shall commence or be covered until approved by Engineer.
- B. Unless otherwise specified, acceptance tests called for in the specifications or deemed necessary by Engineer will be performed by Port or its authorized representative.
- C. Prior to initiating acceptance testing by Engineer, it shall be the responsibility of Contractor to provide "check" testing to monitor construction methods and progress to assure work acceptability. Include "check" testing costs in the price(s) bid; no separate payment will be made for this work.
- D. Acceptance testing by Engineer will be initiated by Contractor's request for approval. Engineer will have the right to perform testing at any time prior to acceptance testing.
- E. Acceptance testing by Engineer may include, but is not limited to, thickness, compaction, density, materials, and composition, or as otherwise required.
- F. Results of Engineer's testing for acceptability will be made known to Contractor as soon as practical. However, it remains the responsibility of Contractor to obtain the specified requirements at all times, and any delay in advising Contractor of test results shall not act as a waiver of this responsibility.
- G. Tests for acceptance which fail to meet the specified requirements may be retested by Port after remedial action. Cost of retesting will be borne by Contractor.
- H. Furnish, for approval or testing by Engineer whenever requested, samples of material as directed. These samples shall be completely representative of the materials or products proposed to be used in the work.
- I. Upon completion of laboratory testing of materials, the results of the tests will be used as a basis for acceptance or rejection in accordance with the specifications for the particular material.

END OF SECTION

Section 01.460 Permits

460.01 Permits

The procedure for obtaining permits shall be as follows:

- A. The Port will submit to federal, state, and local units of government all calculations, drawings, and the contract manual required for review and checking for purposes of obtaining permits.
- B. The Port will obtain all permits from units of government, except those permits customarily issued only to the Contractor. The Contractor shall obtain permits no later than 7 calendar days after being advised by the Port permits are ready to be issued.
- C. The Port will reimburse the Contractor for fees paid to local units of government for required permits.
- D. The Contractor shall bear all costs and charges imposed by units of government for such items as duties, taxes, assessments, licenses, and approvals.
- E. The Contractor shall give all notices, as regards permits, for inspection necessary and incidental to the due and lawful prosecution of the work.
- F. The Contractor shall submit to the Port a legible copy of certificates of approval and/or certificate of occupancy issued by the responsible unit of government.

END OF SECTION

Section 01.500 Construction Facilities and Temporary Controls

500.01 Temporary Utilities

- A. Contractor may use water and electric power from existing facilities at no cost.
- B. The Contractor shall maintain any temporary facilities in a safe and proper manner and completely remove from the site prior to final acceptance.
- C. Labor and equipment for temporary lines and services shall be supplied by Contractor at no added cost to Port.

500.02 Existing Utilities

- A. Contractor must comply with the provisions of ORS 757.541 to 757.571, Excavation Regulation. In the event excavation is being performed by subcontractor(s), Contractor shall require such subcontractor(s) to comply with the law. These provisions include:
 - 1. Notification of all owners of underground facilities in the area of the proposed excavation, at least 48 business day hours, but not more than 10 business days, before commencing an excavation. (A "business day" means any 24-hour day other than a Saturday, Sunday or federal, state, or local legal holiday.)
 - 2. Notification shall include date, location, and depth of the proposed excavation; the type of work to be performed; and a request that underground utilities be marked.
 - 3. The Contractor shall not commence excavation until a response is received from each owner of underground facilities in the area of the proposed excavation, or until 48 business day hours have elapsed from the time of notification.
- B. Contractor shall protect existing utilities, and other public and private facilities and improvements which are to remain in place, from damage in the course of the work.
- C. Any shutdown of utilities shall be done only when such shutdowns will not interfere with Port or tenant operations, and scheduling of such shutdowns shall be with Engineer.

- D. In the event of interruption to utility services as a result of work performed under this contract, Contractor shall promptly notify the proper authority, cooperate with the said authority in restoration of service as promptly as possible, and bear the costs thereof.
- E. Contractor shall repair damages resulting from the execution of this contract prior to final acceptance. Repairs shall be subject to approval of Engineer.

500.03 Sanitary Facilities

- A. Toilet facilities will be available to Contractor's employees without charge, as designated by Engineer.

500.04 Fire Fighting Equipment

- A. Adequate fire fighting equipment shall be provided by Contractor and made available at the work area at all times.
- B. Obtain a welding, cutting, and burning permit from the Terminal 4, Administration Building prior to start of any flame welding, cutting, or burning work. In addition, notify the Terminal 4, Administration Building prior to beginning each flame welding, cutting, or burning operation.

500.05 Pumping

Contractor shall provide, maintain, and operate pumping equipment to properly drain areas where necessary.

500.06 Staging, Parking, and Work Area

- A. Staging and parking areas near the work site will be designated by the Engineer.
- B. Contractor's operation and movement within the staging, parking, and work areas shall be in strict conformance with Port rules and regulations.
- C. Employees' vehicles shall be parked in the designated parking area. Contractor shall be responsible for transporting workers between the parking area and the work area.

- D. Only marked Contractor owned or operated vehicles required for proper prosecution of the work will be allowed in the work area. No private passenger vehicles will be admitted.

500.07 Warning Signs and Barricades

- A. Contractor shall install and maintain adequate warning signs and barricades to protect property and personnel in the area of his operations.
- B. Open trenches, excavations, or obstructions shall be marked by barricades which can be seen from a reasonable distance and adequately lighted at night.

500.08 Storage and Protection of Material and Equipment

- A. Engineer will designate the area upon which Contractor may store material and equipment.
- B. Contractor shall protect his materials and equipment from damage, pilfering, etc., and fully relieve Port of this responsibility.
- C. Upon completion of the work, remove unused materials and equipment and restore the area to original condition.

END OF SECTION

Section 01.700 Contract Closeout

700.01 Cleanup

- A. Remove debris from the staging and work area(s) and disposed of in accordance with Disposal, Section 01.010.
- B. Thoroughly sweep paved areas prior to final acceptance.

700.02 Certificates of Final Approval

- A. Submit originals or clearly readable copies of certificates of approval from the inspection authority prior to application for final payment.

END OF SECTION

DIVISION 2 - SITE WORK

Section 02.085 Excavation, Removal, and Decontamination of Underground Storage Tanks

PART 1 GENERAL

1.01 Scope

- A. This section covers the proper and safe excavation, removal, decontamination, and ultimate disposal of underground petroleum storage tanks.
- B. The procedures set forth are designed to minimize the immediate and future environmental problems/liabilities associated with this work as well as to ensure compliance with state and federal regulations on underground storage tanks.
- C. Tank fill and vent piping shall be removed under this contract.

1.02 Work Items

The work includes but is not limited to:

- A. Removal and disposal of residual product sludge or rinsate in the tank. Port will ensure that the tank is essentially empty prior to start of work, but some residue shall be expected.
- B. Excavation and removal of the tank.
- C. Disposal of the tank.
- D. Notify the Engineer for taking samples of the soil surrounding the tank.
- E. Backfill and compaction; see Section 02.221.
- F. Pavement repair; see Section 02.575.

1.03 Referenced Standards

- A. Oregon Department of Environmental Quality (DEQ)

Oregon Administrative Rules (OAR), Chapter 340:
 - 1. Division 122:
 - 001 to -110 Hazardous Substance Remedial Action Rules
 - 201 to -260 Cleanup Rules for Leaking Petroleum UST Systems

- 301 to -360 Numeric Soil Cleanup Levels for Motor Fuel and Heating Oil
 - 2. Division 150:
 - 010 to -150 Underground Storage Tank Rules
 - 3. Division 160, 162, 163:
 - 005 to -150 Registration and Licensing Requirements for Underground Storage Tank Service Providers
- B. Environmental Protection Agency (EPA)
 - 1. 40 CFR Parts 280 and 281
 - 2. Federal Register, September 23, 1988, 53 FR 37081 - 37212
- C. National Fire Protection Association (NFPA)
 - 1. NFPA 30: Flammable and Combustible Liquids Code
 - 2. NFPA 327: Cleaning and Safeguarding Small Tanks and Containers
 - 3. NFPA 329: Recommended Practice for Handling Underground Leakage of Flammable and Combustible Liquids
- D. American Petroleum Institute (API)
 - 1. Publication 1604: "Removal and Disposal of Used Underground Petroleum Storage Tanks"
 - 2. Publication 1628: "Underground Spill Cleanup Manual"
 - 3. Publication 2015: "Cleaning Petroleum Storage Tanks"
 - 4. Publication 2015A: "Guide for Controlling the Lead Hazard Associated with Tank Entry and Cleaning"
 - 5. Publication 2201: "Procedures for Welding or Hot Tapping on Equipment Containing Flammables"
 - 6. Publication 2202: "Dismantling and Disposing of Steel from Tanks Which Have Contained Leaded Gasoline"
 - 7. Publication 2209: "Pipe Plugging Practices"

1.04 Submittals

- A. A project involving the removal of underground storage tanks (USTs) must be completely and accurately documented to ensure proper project closure with the DEQ. The Port, or its designated representative, will prepare a final project report describing the UST removal. The Contractor shall assist in this effort by providing to the Engineer such information or documentation specified in Article 3.05 below.
 - B. Submit a specific written work plan for the tank being removed giving a detailed account of how Contractor intends to conduct the excavation and removal of the tank. The plans shall give special attention to methods to be used to protect the adjacent building foundations from being undermined and to protect those buildings from damage or movement.
-

PART 2 PRODUCTS

Not applicable.

PART 3 EXECUTION

3.01 General

- A. Remove asphalt as required to excavate the tank and associated piping.
- B. Dispose of fill and vent piping along with the storage tank.
- C. Follow DEQ regulations and recommended practices for decommissioning and removal of underground storage tanks and other referenced standards identified in Article 1.03 above.

3.02 Pre-Removal Procedures

- A. Prior to removal of the tank from the ground, the following procedures must be accomplished.

1. Drain and flush all piping into the tank and remove all product residue and/or rinsate from the tank.
 2. Dispose of waste oil, sludge, and rinsate at a facility approved by the DEQ.
 3. Submit to the Port documentation of quantity of product disposed of and a receipt from the approved disposal site.
- B. The Port has sampled the product in the tanks. This information is attached.

3.03 Tank Removal Procedures

- A. Follow DEQ regulations and recommended practices for decommissioning and removal of underground storage tanks and other referenced standards identified in Article 1.03 above.
- B. CAUTION: Special care shall be taken to not endanger the stability and integrity of adjacent building foundations. Any damage or movement shall be repaired by Contractor at no expense to the Port.
- C. Contractor shall be responsible for maintaining the excavation in safe condition as long as the excavation remains open.

3.04 Inspection and Sampling

- A. If the site of the tank removal is found to have a release of product, immediately notify the Engineer.
- B. After excavation and removal of the tank, the Engineer will evaluate the excavation for potential contamination due to leaks from the tank system.
 1. An inspection of the excavation for apparent signs of a release and/or contamination of the soil will be made.
 2. Soil samples will be taken from the excavation for laboratory analysis for possible contamination. Samples will be analyzed on a rush basis in order to not unduly delay the completion of the project. The Port will provide or arrange required inspection sampling and laboratory services.
 3. Contractor will assist in obtaining soil samples, such as from backhoe bucket, etc.
 4. Water samples will also be taken if groundwater is found in excavation.

- C. If the visual inspection and/or laboratory results indicate the presence of contamination, additional excavation of soil may be necessary. This work will proceed only under the immediate direction of the Engineer. Payment for this work, if required, will be included in Bid Item 3.
- D. Material found to be contaminated shall be stockpiled at the site designated on the drawings.
- E. Cover the stockpile area with plastic sheeting as required prior to placing any material. Cover completed stockpile with plastic sheeting. Anchor sheeting securely to prevent dislodging by wind.
- F. The excavation shall be backfilled with clean material, only, and at the direction of the Engineer. Suitable fill material is available at Terminal 6, as designated by the Engineer.

3.05 Post-Removal of Tanks

- A. Tanks shall be removed from the premises the same day as excavation and removal. Tanks shall be scrapped or landfilled.
- B. Final Project Report
 - 1. The Port, or its designated representative, will prepare a final project report detailing the UST removal.
 - 2. The Contractor shall assist in this effort by providing to the Engineer such information or documentation as necessary, including, but not limited to:
 - a. Copies of receipts from disposal facility for any residual product, sludge, or rinsate removed from the tank.
 - b. A certified and notarized letter and/or bill of sale must be included if the tank was sent or sold for scrap. If the tanks are landfilled, documentation must be included in the report to substantiate that fact.
 - c. Copies of receipts from the approved disposal facility for disposal of contaminated soil or other materials,
 - d. Copies of correspondence relating to the above items in the tank removal project.

- e. Copies of licenses issued to the firm, or individuals within the firm, by DEQ or other regulatory agency for any of the following, as appropriate:
 - (1) Tank Services Provider
 - (2) Supervision of Tank Installation and Retrofitting
 - (3) Supervision of Tank Decommissioning
 - (4) Supervision of Tank System Tightness Testing
 - (5) Supervision of Cathodic Protection System Testing
- f. Any other information available regarding this project, including tank and piping decommissioning and removal procedures used, etc.

3.06 Contractor Qualifications

- A. Underground storage tank removal and disposal shall be accomplished by a firm which specializes in this type of work as a major part of its business.
- B. Contractor shall provide a DEQ licensed supervisor for all phases of the tank removal operation. Submit evidence of licensing by the DEQ according to the provisions of OAR Chapter 340, Divisions 160, 162, and 163 for the firm and for individuals responsible for supervising work at the project site. Also submit evidence of the firm's experience, including names and addresses of previous customers.
- C. The Port reserves the right to approve the underground storage tank removal firm based on Port staff review of its experience and references.

3.07 Notifications

- A. Notify the Engineer prior to removal of underground storage tanks. The Engineer will be present to observe tank removal. The Port will take independent soil and water samples as necessary for laboratory testing according to applicable regulations.

- B. Notify the Engineer immediately if soil contamination is discovered which indicates a release of petroleum products, paint, or other contaminants to the environment.
- C. Notify Engineer if groundwater is found in the excavation.

3.08 Disposal

- A. Dispose of tanks and waste materials in accordance with Section 01.010, Article 010.06 of these specifications. Disposal must be documented as specified in Article 3.05 above before final payment is made.

END OF SECTION

Section 02.221 Excavating, Backfilling, and Compacting

PART 1 GENERAL

1.01 Scope

- A. This section covers excavating and backfilling required for removal of underground storage tank.
-

PART 2 PRODUCTS

2.01 Excavation

- A. All material, regardless of condition, excavated from subgrade to the bottom of the excavation; or, where there is no subgrade, from original ground to the bottom of the trench.

2.02 Unsuitable

- A. Material that is not usable for backfill or trench bottom as determined by Engineer.

2.03 Backfill

- A. Native: Approved excavated material.
- B. Imported
1. Clean fill material is available without charge at Terminal 6 as designated by Engineer. Material is dredge sand.
 2. Crushed aggregate: OSHD, Section 703.07, 1 1/2" - 0", 1" - 0", or 3/4" - 0".
-

PART 3 EXECUTION

3.01 Excavation

- A. Dig as required to remove the underground fuel storage tank. Minimize existing pavement removal as much as practicable.

- B. Open excavation to allow satisfactory prosecution and inspection of project, but so as not to endanger adjacent building.
- C. Contractor shall notify the utility companies prior to working around utility lines. Engineer will coordinate any required deactivation of water and power lines.

3.02 Excavation Below Grade

- A. Excavation made below grade inadvertently or without authority shall be restored to grade at no added cost to Port.
- B. Engineer will determine the depth of removal of unsuitable but uncontaminated soil.
- C. Unsuitable but uncontaminated material shall be disposed of off Port property.

3.03 Dewatering

- A. Notify Engineer if water is present in excavation. Proceed only under direction of Engineer.
- B. Keep excavation free from water.
- C. Provide adequate pumping and piping equipment to handle and dispose of water, if required.
- D. Provide adequate screens or plugs to prevent objectionable material from entering pipe.

3.04 Sheeting and Bracing

- A. Provide sheeting and bracing as required to prevent caving or sloughing of excavation walls, particularly adjacent to building foundations.
- B. Solid-sheet excavation, if necessary.
- C. Remove sheeting and bracing from excavation before or during backfilling operations unless directed otherwise.

3.05

Backfill and Compaction

- A. Notify Engineer at least 24 hours in advance of any backfilling.
- B. Backfill with native material and imported material as specified by Engineer.
- C. Solidly ram and tamp layers of backfill into spaces around structures reasonably equally. Avoid displacement of structures.
- D. Raise the backfill level uniformly.
- E. Compact backfill deeper than 4 feet below subgrade to 92 percent of maximum density as measured by AASHTO T-180, unless directed otherwise.
- F. Compact the backfill from subgrade to a depth of 4 feet below subgrade to 95 percent of maximum density as measured by AASHTO T-180, unless directed otherwise.
- G. In-place density tests will be made according to ASTM D2922-71 or D1556-68.
- H. Flooding with water and compaction with vibrator under flowing water will be allowed at Engineer's discretion. Compact to 95 percent of maximum density as measured by AASHTO T-180.

END OF SECTION

Section 02.575 Pavement Repair

PART 1 GENERAL

1.01 Scope

Replacement of pavement removed for underground fuel tank excavation.

1.02 Referenced Standards

AASHTO American Association of State Highway and
Transportation Officials

ASTM American Society for Testing and Materials.

OSHD Oregon State Highway Division - "Standard
Specifications for Highway Construction - 1984."
Sections are referenced.

PART 2 PRODUCTS

2.01 Aggregate Base

In accordance with OSHD Subsection 703.07, 1" - 0" or
3/4" - 0".

2.02 Asphalt Concrete

A. In accordance with OSHD Section 403, Class C mix.

B. Asphalt cement, Type AC-15.

2.03 Tack Coat

In accordance with OSHD Subsection 407.11, CRS-1, CSS-1 or
CSS-1h.

PART 3 EXECUTION

3.01 General

- A. Replace excavated asphalt concrete and aggregate base with new material. Repair or replace pavement damaged by Contractor. Install new pavement where existing pavement was removed to allow for excavation.
- B. Replace and install new asphalt concrete and aggregate base 3 inches thick and 8 inches thick respectively.

3.02 Backfill

- A. Compact the top 12 inches of backfill to 95 percent of the maximum dry density as determined by AASHTO T-180.
- B. Trim the top of the backfill to within 0.05 foot of the original bottom of aggregate base.

3.03 Aggregate Base

- A. Obtain Engineer's acceptance of foundation layer for aggregate base before beginning construction of aggregate base.
- B. Compact to 95 percent of maximum dry density as determined by AASHTO T-180.

3.04 Asphalt Concrete Surfacing

- A. Obtain Engineer's acceptance of foundation layer for asphalt concrete surfacing before beginning construction of asphalt concrete surfacing.
- B. Sawcut and remove asphalt around excavation a minimum one foot back on solid base. Remove asphalt to obtain a rectangular patch.
- C. Tack pavement surfaces that will be in contact with new asphalt concrete.
- D. Place and compact asphalt concrete to a minimum of 95 percent of laboratory density as determined by ASTM D-1559.
- E. Asphalt and sand seal all edges where new asphalt concrete meets existing pavement.

END OF SECTION

HAIH AND ASSOCIATES, INC.
ENVIRONMENTAL MANAGEMENT

RECEIVED
DEC 28 1990

ENGINEERING SERVICES
LLOYD BLDG.

December 27, 1990

Mr. Russ Korvola
Port of Portland
Box 3529
Portland, Oregon 97208

HAI Project # 1533

SUBJECT: Port of Portland, Terminal 4, OTC Gear Locker UST Decommissioning

Dear Mr. Korvola:

As you requested I have enclosed a copy of the original analytical results received from Pacific Environmental Laboratory, Inc.

If there are any comments or questions, please contact the undersigned.

Sincerely,



John Aniello
Environmental Scientists

enclosure



9405 S.W. Nimbus Ave.
Beaverton, OR 97005
(503) 644-0660
Fax (503) 644-2202

Please bill the Port of Portland

Please bill Hahn and Associates, Inc.

CHAIN OF CUSTODY RECORD

LAB PROJECT NO. 90-31,008

PROJECT NUMBER 1533 1377

RUSH ☐ YES ☒ NO

COMMENTS Please call John Luvelli or Phil Ekstrom with any questions.

SAMPLES RECEIVED AT 4°C ☐ YES ☐ NO

SAMPLES IN APPROPRIATE CONTAINERS ☐ YES ☐ NO

PROVIDE VERBAL RESULTS ☒ YES ☐ NO

PROVIDE FAX RESULTS ☒ YES ☐ NO

[illegible]

ALL SAMPLES WILL BE
DISPOSED OF 30 DAYS
AFTER RECEIPT

RELINQUISHED BY

COMPANY WAT

DATE/TIME
27 Nov 1215

RECEIVED BY
K. M. ...

COMPANY 2:40 PM; 11-27-9

RELINQUISHED BY
DeLuca

COMPANY

DATE/TIME
11/27/90 3:10

RECEIVED BY K. Richard

COMPANY
PEL

RELINQUISHED BY

COMPANY

DATE/TIME

RECEIVED BY

COMPANY

T4T900001674



PACIFIC
ENVIRONMENTAL
LABORATORY INC.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660
FAX # (503) 644-2202

December 17, 1990

Hahn & Associates, Inc.
434 N.W. Sixth Avenue
Suite 203
Portland, OR 97209

Attn: Phil Ralston

Re: JOB #1533 1377
PROJECT - TFRJNS POPEPA
PEL #90-3608

Enclosed is the lab report for your samples which were received on November 27, 1990.

I. Sample Description

Two Liquid Samples

The samples were received under a chain of custody.

The samples were received in containers consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes
Lab Manager

Howard Boorse
QA/QC Manager

T4T90000167

PACIFIC
ENVIRONMENTAL
LABORATORY INC.

PEL REPORT NUMBER: 90-3608
CLIENT: Hahn & Associates, Inc.
JOB REFERENCE: 1533 1377
PROJECT: TFRJNS POPEPA
DATE: December 17, 1990
ITEMS: Two Liquid Samples

METHOD: Total Petroleum Hydrocarbons per EPA 418.1
Results in percent

<u>Sample I.D.</u>	<u>TPH</u>
1533	95-100%
Lab Blank	ND
Detection Limit	5 (ppm)

METHOD: PCB's per EPA 8080
Results in mg/kg (ppm)

<u>Sample I.D.</u>	<u>PCB's</u>
1533	ND
1377	23
Lab Blank	ND
Detection Limit	1.0

METHOD: Total Metals per Standard Method 302 F, EPA 6010
Results in mg/kg (ppm)

<u>Sample I.D.</u>	<u>Cadmium</u>	<u>Chromium</u>	<u>Lead</u>
1533	ND	ND	21
Lab Blank	ND	ND	ND
Detection Limit	1	1	5

PACIFIC
ENVIRONMENTAL
LABORATORY INC.

PEL REPORT NUMBER: 90-3608
CLIENT: Hahn & Associates, Inc.
JOB REFERENCE: 1533 1377
PROJECT: TFRJNS POPEPA
DATE: December 17, 1990
ITEMS: Two Liquid Samples

METHOD: Solvents per Modified EPA 3810 (GC/MS)
Results in mg/L (ppm)

<u>Compound</u>	<u>1533</u>	<u>Detection</u> <u>Limit</u>
Benzene	ND	50
Bromodichloromethane	ND	50
Bromoform	ND	50
Carbon Tetrachloride	ND	50
Chlorobenzene	ND	50
2-Chloroethylvinyl ether	ND	100
Chloroform	ND	50
Dibromochloromethane	ND	50
Dichlorobenzenes	ND	50
1,1-Dichloroethane	ND	50
1,2-Dichloroethane	ND	50
1,1-Dichloroethene	ND	50
1,2-Dichloroethene	ND	50
1,2-Dichloropropane	ND	50
trans-1,3-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	100
Ethyl Benzene	ND	50
Methylene Chloride	ND	50
1,1,2,2-Tetrachloroethane	ND	100
Tetrachloroethene	ND	50
Toluene	71	50
1,1,1-Trichloroethane	200	50
1,1,2-Trichloroethane	ND	50
Trichloroethene,	ND	50
Trichlorofluoromethane	ND	100
Xylene	65	50

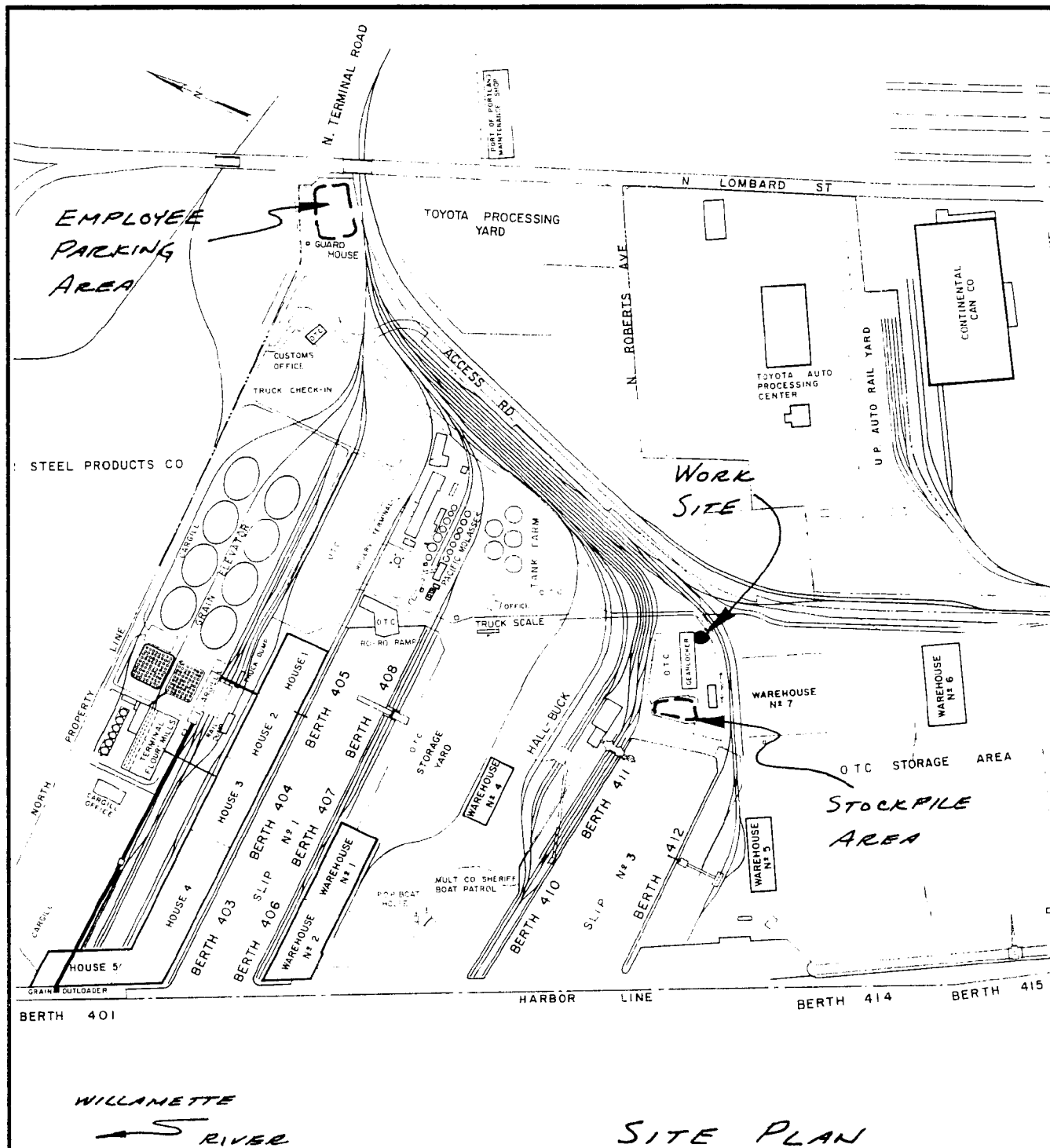


PACIFIC
ENVIRONMENTAL
LABORATORY INC.

PEL REPORT NUMBER: 90-3608
 CLIENT: Hahn & Associates, Inc.
 JOB REFERENCE: 1533 1377
 PROJECT: TFRJNS POPEPA
 DATE: December 17, 1990
 ITEMS: Two Liquid Samples

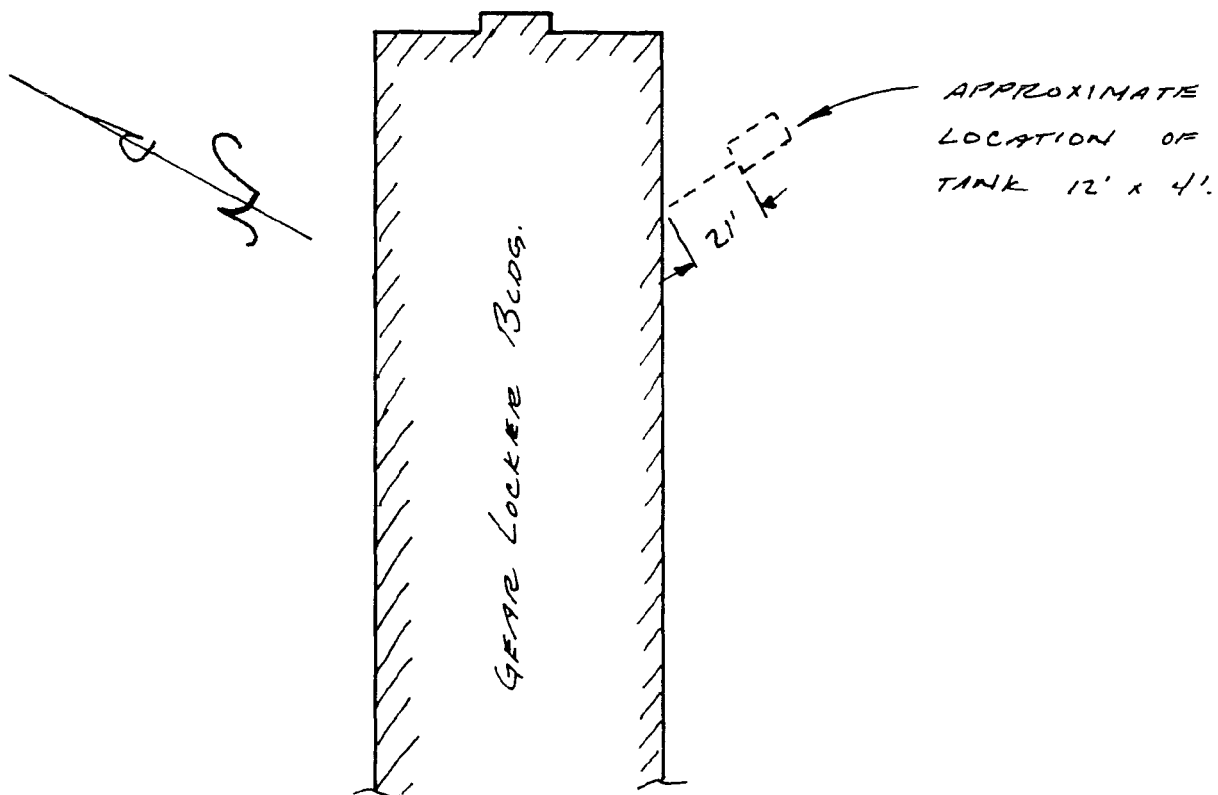
METHOD: Solvents per Modified EPA 3810 (GC/MS)
 Results in mg/L (ppm)

<u>Compound</u>	<u>1377</u>	<u>Lab Blank</u>	<u>Detection Limit</u>
Benzene	ND	ND	0.2
Bromodichloromethane	ND	ND	0.2
Bromoform	ND	ND	0.2
Carbon Tetrachloride	ND	ND	0.2
Chlorobenzene	ND	ND	0.2
2-Chloroethylvinyl ether	ND	ND	0.4
Chloroform	ND	ND	0.2
Dibromochloromethane	ND	ND	0.2
Dichlorobenzenes	ND	ND	0.2
1,1-Dichloroethane	ND	ND	0.2
1,2-Dichloroethane	ND	ND	0.2
1,1-Dichloroethene	ND	ND	0.2
1,2-Dichloroethene	ND	ND	0.2
1,2-Dichloropropane	ND	ND	0.2
trans-1,3-Dichloropropane	ND	ND	0.4
cis-1,3-Dichloropropene	ND	ND	0.4
Ethyl Benzene	ND	ND	0.2
Methylene Chloride	ND	ND	0.2
1,1,2,2-Tetrachloroethane	ND	ND	0.4
Tetrachloroethene	ND	ND	0.2
Toluene	ND	ND	0.2
1,1,1-Trichloroethane	ND	ND	0.2
1,1,2-Trichloroethane	ND	ND	0.2
Trichloroethene	ND	ND	0.2
Trichlorofluoromethane	ND	ND	0.4
Xylene	ND	ND	0.2



Port of Portland
 Project T4 JONES GEARLOCKER
U.S.T. REMOVAL
 Engineering Assignment No. 905087

By T.W./D.M.
 Date 12/5/90
 Checked T.W.
 Sheet No. 1 of 2



NOTE: MEASUREMENTS SHOWN ARE APPROXIMATE AND WERE DERIVED BY AN ABOVE GROUND SURVEY WITH METAL DETECTION EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY.

WORK SITE PLAN

N.T.S.



Port of Portland
 Project T4 JONES GEARLOCKER
U.S.T. REMOVAL
 Engineering Assignment No. 905087

By T.W./D.M.
 Date 12/5/90
 Checked T.W.
 Sheet No. 2 of 2